

BAA 02-002

The Naval Explosive Ordnance Disposal Technology Division has a need to develop and demonstrate technologies to detect, access, examine, render safe, and dispose of unexploded ordnance (UXO). White Papers/Full proposals for exploratory development are sought in the following areas:

- 1) Standoff detection/monitoring of electronic safed and armed fuzes
- 2) Reduction/obscuration of signatures of explosive ordnance disposal (EOD) technicians and equipment
- 3) Mitigation of blast and fragment damage to EOD technicians and robotic vehicles
- 4) Multi-articulated tactile robotic arm equipment/techniques and robotic support technology development to render safe explosive devices
- 5) New and innovative sensors for standoff detection and/or identification of surface and buried ordnance
- 6) Ultra high velocity shaped charges to defeat various fuzing devices
- 7) Standoff detection and examination of hidden explosive devices
- 8) Detection and material composition determination of chemical and biological agents
- 9) Lightweight composite explosive containment vessel
- 10) Breaching of UXO housing without fuze actuation from vibration/disturbance
- 11) Imaging of internal features of explosive devices and UXO (including self-developing x-ray film for large targets).

EOD also has a requirement to supply mission-critical information to mobile EOD workers in the field. In support of this requirement, we seek white paper/full proposals identifying advances in the following areas:

- 1) Multi-modal user interaction: EOD field workers need to interact with their mobile information systems in a natural language dialog, with speech as the input and a synthesized voice for output. The mobile information systems need to operate in multi-modal format by supporting the natural language dialog mode along with traditional input and output methods
- 2) Augmented Reality: EOD field workers need a mobile information system that can visually recognize various explosive devices in the field and then virtually overlay operational procedures for a particular operational situation
- 3) Intrinsically Safe Information Systems: EOD field workers need a mobile information system that is rated as Intrinsically Safe (IS) for operation in environments containing explosive gas.

General Requirements for White Papers and Full Proposals: White Papers/full proposals shall be submitted to the following address: NAVSEA Indian Head Surface Warfare, Attn: Carol Bolton, Bldg. 1558, 101 Strauss Avenue, Indian Head, MD 20640-5035. White paper/full proposal submissions must be in hard copy, with one (1) original copy and eight (8) photocopies. White papers/full proposals submitted

electronically or by fax will not be considered eligible. Each offeror should submit a cover sheet with its white paper/proposal. This cover sheet, which will not be counted against any page restrictions referenced in the Broad Agency Announcement (BAA), should include the BAA number BAA 02-002, name, address, telephone number, fax number, and email address for the technical and business points of contacts on the project.

White Papers: Interested offerors are requested to submit a white paper, the purpose of which is to preclude unwarranted effort by the offeror in preparing a full technical and cost proposal not considered to be responsive. Each white paper is limited to five pages in length and may address only one of the above areas. The white paper will consist of three primary sections: Technical, Managerial, and Cost. The Technical section shall state which category is being addressed and shall consist of clear descriptions of objectives, technical issues which must be resolved to accomplish objectives, approach to resolving these issues, and particular prior experience of offeror in the targeted technology area. The Management portion shall include key personnel (include curriculum vitae), experience, facilities and a plan of action with milestones. The Cost portion shall include a cost breakdown of the effort being proposed. The effort should not exceed three years in length and the total cost should not exceed \$1,500,000. White papers are due to the address listed above by 1600 (EDT) on 25 March 2002.

Full Proposals: The due date for receipt of full proposals is 1600 (EDT) on 20 May 2002. Full proposals shall consist of three separate sections, one for Technical, one for Management, and one for Cost. All sections shall reference the BAA number and include the offeror's project titles. Titles given to the white papers/proposals should address the areas that are being proposed. Further details regarding the format requirements for the full proposals will be sent with notification to submit the full proposals. It is anticipated that final award selections will be made by 30 June 2002.

Evaluation of white papers/full proposals: Evaluations will be conducted using the following selection criteria, which are listed in descending order of importance: (1) Overall scientific and technical merits, (2) The understanding of EOD requirements and the technical/scientific innovation and risk to solve the requirement, (3) Potential for transition to fleet/field capability, (4) The offeror's capabilities, related experience, facilities, techniques or unique combinations of these which are integral factors for achieving the proposal objectives, (5) The qualifications, capabilities, and experience of the proposal Principal Investigator, team leader or key personnel who are critical in achieving the proposal objectives, (6) Proposed cost and fees. It is anticipated that the evaluation of the white papers will be completed and disseminated to offerors by 18 April 2002.

The socio-economic merits of each proposal seeking a procurement contract will be evaluated in the context of the requirements described in this announcement. The evaluation process will consider the extent of commitment in providing meaningful subcontracting opportunities for small businesses, HUBZone small businesses, small disadvantaged businesses, woman-owned small business concerns, service disabled veteran-owned, veteran-owned small businesses, historically black colleges and

universities, and minority institutions. The North American Industry Classification System (NAICS) code for this solicitation, 541710 (which corresponds with the standard industrial classification code of 8731), specifies a small business size standard of 1000 employees or less. A Small Business Subcontracting Plan prepared in accordance with FAR 52.219-9 must accompany contract proposals (full proposals) that exceed \$500,000 submitted by all but small businesses. Entities that must submit a Small Business Subcontracting Plan for contract proposals that exceed \$500,000 include universities/colleges, nonprofits, and large businesses. Historically Black Colleges and Universities (HBCU) and Minority Institutions (MI) are encouraged to submit proposals and/or join others in submitting proposals. However, no portion of this BAA will be set aside for HBCU and MI participation due to the impracticality of reserving discrete or functionally separable areas of this technology for exclusive competition among these entities.

Other BAA Information: This notice constitutes a BAA as contemplated by FAR 6.102(d)(2). Offerors should state in their proposals that it is submitted in response to BAA 02-002. Unless otherwise stated herein, no additional written information is available, nor will a formal RFP or other solicitation regarding this announcement be issued. Requests for the same will be disregarded. The Government reserves the right to select all, some, or none of the proposals received in response to this announcement. Awards to successful offerors may be made at any time throughout the year following the date of this published announcement, based on funding availability. Interested parties are invited to respond to this synopsis. No hard copy version of this announcement will be made available. The Government will not pay for proposal preparation costs. The cost of preparing proposals (including white papers and oral presentations) in response to this BAA is not allowable as a direct charge to any contract resulting from this BAA or to any other Government contract. Offerors are advised that only Contracting Officers are legally authorized to contractually bind or otherwise commit the Government.

For more information regarding technical matters, please contact: David Gill, Code 5023, NAVEODTECHDIV, (301) 744-6850, x-251.

For more information regarding contractual matters, please contact: Carol Bolton, Code 1143D, NAVSEA IHD, (301) 744-6789.